

# Final Assignment

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## 1 Assignment

1. Create a model of your FSM. (You'll need it for following subtasks.)
  - Use the FSM from previous assignment.
2. (a) Distinguishing Sequence (of your automaton),  
(b) State-Verifying Sequence (of your automaton),  
(c) State-Characterizing Set (of your automaton),  
(d) Homing Sequence (of your automaton),  
(e) Synchronizing Sequence (of your automaton).
3. For each of the sequences above:
  - Create a control table that shows/proves the correctness of the given sequence.
4. Implement (basic) version of the L\*-algorithm
  - You can use the provided template.
5. Use the L\* to identify the given FST (in separate Python file).